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Curvature-Augmented Tensor Voting for Shape Inference from Noisy 3D Data

CK Tang, G Medioni - IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE ... , 2002 - doi.ieeecs.org

... unreliable at points of surface orientation discontinuities, these ... votes is proportional to the magnitude of curvature ... directions if only the direction of the ...

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Robust estimation of curvature information from noisy 3D data for shape description -

► USC.edu (pdf)

CK Tang, G Medioni - Proceedings of the Seventh International Conference on ... , 1999 - doi.ieeecomputersociety.org

... estimated than quantitative ones (eg curvature magnitude). ... effectively encodes preferred direction, while avoiding ... nance of global orientation consistency. ...

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Robust Estimation of Adaptive Tensors of Curvature by Tensor Voting

WS Tong, CK Tang - IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE ... , 2005 - doi.ieeecomputersociety.org

... curvature in four different directions 45 degrees ... is implicitly addressed by the weighted area constraint in ... these results, we estimate (vote for) directional ...

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Method of determining the orientation of an image

P Dewaele - US Patent App. 10/776,736, 2004 - Google Patents

... K is a scalar chosen such that that the magnitude of the ... value of the curvature, which is an indicator of the orientation's strength ... [0084] The direction of the ...

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First Order Tensor Voting and Application to 3-D Scale Analysis

WS Tong, CK Tang, G Medioni - IEEE COMPUTER SOCIETY CONFERENCE ON COMPUTER VISION AND ... , 2001 - doi.ieeecomputersociety.org

... one orientation of the curvature direction is chosen. ... the likelihood, is inversely proportional to the arc length PQ, and related to the magnitude of the ...

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DL Page, Y Sun, AF Koschan, J Paik, MA Abidi - GRAPHICAL MODELS, 2002 - iris.engr.utk.edu

... curvature is proportional to the magnitude of Gaussian ... T_i and thus the principal directions and principal ... we estimate the normal vector orientation for each ...

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First Order Augmentation to Tensor Voting for Boundary Inference and Multiscale Analysis in 3D

WS Tong, CK Tang, P Mordohai, G Medioni - IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE ... , 2004 - doi.ieeecomputersociety.org

... the token has no preference of orientation, and the ... accumulated result is a vector whose direction points to ... votes are cast and whose magnitude encodes polarity ...


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... The major drawback, however, is that it follows from the second derivative of a surface and as such is often ... Our goal is to estimate the curvature of a ...

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Y Ohtake, A Belyaev, HP Seidel - ACM Transactions on Graphics (TOG), 2004 - portal.acm.org

... Indeed, moving from one mesh vertex to another changes discontinuously the local vertex neighborhood where a local curvature estimation scheme is used and ...

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[PDF] ► [Curvature-Based Transfer Functions for Direct Volume Rendering](#)

J Hladuvka, A König, E Gröller - Spring Conference on Computer Graphics, 2000 - cg.tuwien.ac.at

... and Medioni [15] extended the tensor voting mechanism by ... The definition involves principal curvatures, whose estimation will be ... 2 Concept of a Curvature-Based ...

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[Smoothing and matching of 3-d space curves](#) - ► [inria.fr](#) [PDF]

G Quéziec, N Ayache - International Journal of Computer Vision, 1994 - Springer

... A more precise estimate of model-data distances improves the estimation of curvature and torsion. (d) The constraint on the second derivative also improves ...

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[Robust contour decomposition using a constant curvature criterion](#)

DM Wuescher, KL Boyer - Pattern Analysis and Machine Intelligence, IEEE Transactions ..., 1991 - [ieeexplore.ieee.org](#)

... But they prove that no such filter exists for second derivative operations in two dimensions. ... In Fig. 5(a) we obtain a very noisy estimate of curvature as a ...

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[PDF] ► [Three-dimensional surface curvature estimation using quadric surface patches](#)

I Douras, BF Buxton - Scanning, 2002 - somavision.co.uk

... More recent works include those of Tang and Medioni ([TaMe99] - robust curvature estimation from noisy data using a Tensor Voting scheme) and Mokhtarian et. ...

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[Curvature Estimation in Oriented Patterns Using Curvilinear Models Applied to Gradient Vector Fields](#) - ► [tudelft.nl](#) [PDF]

J van de Weijer, LJ van Vliet, PW Verbeek, M van ... - IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE ... , 2001 - doi.ieeecomputersociety.org

... isophote (tangential) curvature (the second derivative along the ... which do yield a curvature estimate for oriented ... involves accumulation of evidence by voting. ...

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Generic curvature features from 3-D images